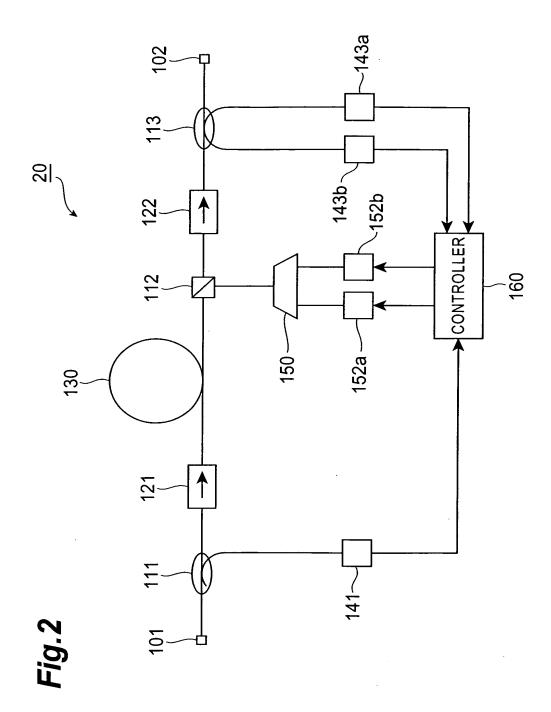


Fig.1



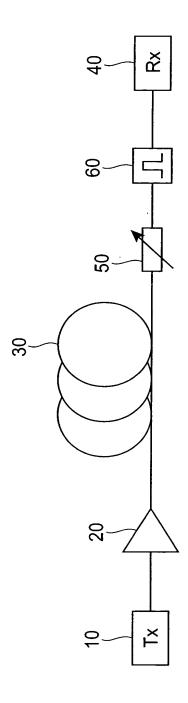


Fig.3

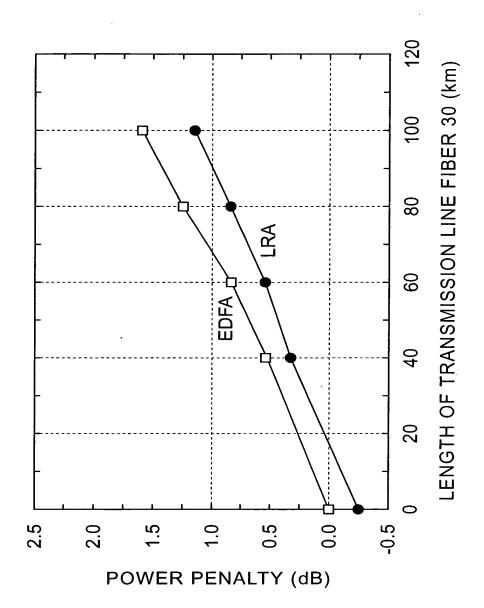
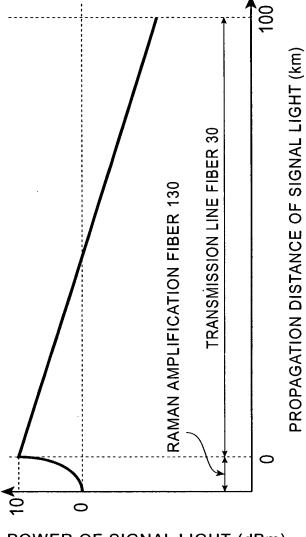


Fig. 4



POWER OF SIGNAL LIGHT (dBm)

Fig.5

	RAMAN AMPLIFICATION FIBER130 TRANSMISSION LINE FIBER30	TRANSMISSION LINE FIBER30
NONLINEAR REFRACTIVE INDEX n₂(m³/W)	5.3	2.9
EFFECTIVE AREA Aeff(μm²)	0	85
FIBER ELNGTH(km)	က	100
TRANSMISSION LOSS(dB/km)	0.53	0.2
PHASE SHIFT AMOUNT Φ (rad)	0.23	0:30
NONLINEAR COEFFICIENT(1/W/km)	23.9	0.34
CHROMATIC DISPERSION(ps/nm/km)	-13.6	16

Fia.6

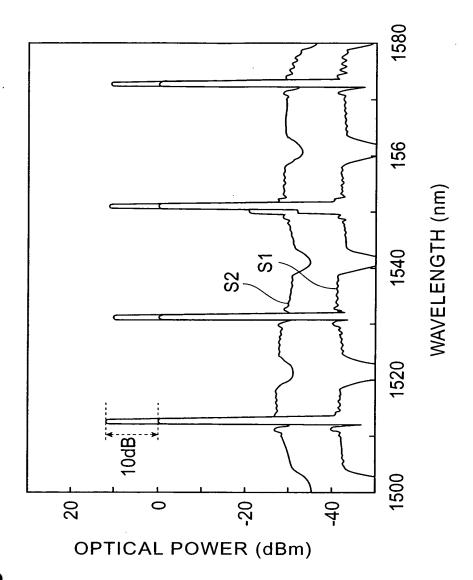


Fig. 7

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